The Influence of Structural Features and Surface Proper- 20-119-5-33/59 ties on the Froth Flotation Extraction of Poorly Floatable Lead Minerals

and composition strongly differentiates from the easily floatable minerals. Therefore the authors tried to explain the ungatisfactory results in the floatation of the above mentioned minerals by the investigation of their crystallo-chemical characteristic features and of their surface properties with regard to water and various flotation reagents. Based on the results of these investigations also the most effective methods for the floatation of the mentioned minerals are to be found. The authors first of all calculated the energies of the crystal lattices of the lead minerals to be investigated by means of the method by Fersman. According to the results given in a table the energies of the crystal lattices of cerusaitem anglesite and wulfenite (group I) differ only little from each other. The second group of minerals (mimetisite, pyromorphite and vanadinite) have great values of lattice energies. The greatest energies of the crystal lattice have beudantite, mimesite, plumbo bojarosite and pyromorphite. Already the given data make possible an orientation in the estimation of the flotation properties with regard to their capability for interaction of all mentioned minerals with the reagents. The inve-

Card 2/3

The Influence of Structural Features and Surface 20-119-5-33/59 Properties on the Froth Flotation Extraction of Poorly Ploatable Lead Minerals

stigation carried out showed the coincidence of the flotation properties with the capability for interaction of the mentioned minerals with the calculated values of energy of the crystal lattice. Thus, for instance, the effectiveness of the action of sodium sulfide on oxide lead minerals decreases in the transition from the minerals of group I to the minerals of groups II and III. Various details concerning the flotation of groups floatable minerals are given. Phosphotene, petroleum, lubricating served as new effective flotation reagents. Finally the author thanks N.V. Belov, Member, Academy of Sciences, and G. B. Bokiy which are Soviet.

SUBMITTED:

December 18, 1957

Card 3/3

SOV/180-59-3-3/43

AUTHORS:

Glembotskiy, V.A. Kelchemanova, A.Ye. and

Pikkat rdynskaya A.P. (Moscow)

TITLE

Locking for New Methods of Separating Collective

Flotation Concentrates

FRIODICAL: Izvestiya Akadomii nauk SSSR Otdeleniye tekhnicheskikh

nauk, Metaliargiya i toplavo 1931 Sr 3, pp 13-19 (USSR)

FF', FRACT.

This article is a report approved by a session of the Uchenyy Sovet (Scientific Council) of the Institut Gornego dela (Mining Institute) AS SSSR (AS USSR) in December 1996. The authors mention the promising proposals of A.S.Konev and L.B. Debrivany, adopted at the

Lerinogerskaya obogatitel naya fabrika (Lerinogersk Beneficiation Works) (Ref 1 and 2) for the separation of collective lead wine concentrates. To extend the range of application of collective flotation the authors decided to study other possible methods. This has red them to laboratory scale studies of the stability of

the adsorbed layers of collector on particle surfaces in relation to different factors. For this the mineral suspension was treated for a given time with a collector and then subjected to flotation under normal conditions.

Card 1/4

SOV/180-59-3-3/43

Looking for New Methods of Separating Collective Flotation Concentrates

The product was exposed to the action of the factor being studied and again flotated; with complete destruction of the adsorbed layer hardly any flotation occurred. Abrasive factors were studied using quartz, which was mixed together with the mineral (galenite) in the flotation chamber (Fig 1 shows the flowsheet); the effectiveness depended on the origin of the mineral and the collector used. Quartz was found ineffective with a pyrite, a chalcopyrite and a sphalerite. Thermal disruption of the adsorbed layers was studied using hot water, steam or electric (induction or ordinary frequency) heating of the froth flotation product. Results for water at 100°C are shown as plots of mineral recovery in the second flotation against time of heating (Fig 2 and 3) for a galenite, sphalerite and pyrate with other and anyl xanthates. The treatment was most effective with the galenite. Steam was less effective than hot water Electric heating was effective for materials relatively insusceptible to hot water treatment: high-frequency heating heating

Card 2/4

sov/180-59-3-3/43

Looking for New Methods of Separating Collective Flotation Concentrates

experiments in which G.M.Dmitriyeva participated showed no advantages To elucadate details of the adsorption layer disruption process special determinations were made of the rate and degrees of decomposition of xanthate solutions at elevated temperatures and also the quantity of xanthate leaving the mineral surface under the action of mechanical or thermal factors. Fig 5 shows plots of amount or undecomposed potassium ethyl xanthates against cime for 30 60 80 and 100°C, Fig 6 shows plets of undecomposed ethyl, butyl and amyl xanthates after 30 minutes treatment against temporature. The authors conclude previsionally that with thermal decomposition of the adsorbed layer there is no appearance of free xanthate ions in the solutions: the stability of a freshly separate, ion is considerably reduced. Since 1950, the authors have been working in collaboration with the laboratoriya ulitrazvuka (Ultrasonics Laboratory) (head L.D.Rozenberg) of the Akusticheskiy institut (Acoustles Institute) of the AN SSSR (AS USSR). A magnetostruction vibrator (frequency

Card 3/4

507/186-59-3-3/43

Looking for New Methods of Separating Collective Flotation Concentrates

20 k Hertz, intensity 2 watt/cm²), was used on froth products of galenite, pyrite, spalerite, chalcopyrite, scheelite, calcite, beryl zircon, ilmenite and some other minerals a chalcopyrite-galenite flotation product could be separated, the galenite being depressed. It is not clear in what form the xanthate is removed from the sulphide surface. It is doubtful if either the abrasive cavitation or temperature rises produced by the ultrasonic beam remove the xanthate. Adsorbed cleate layers on beryl and ilmenite were removed but in general such layers proved stable. Technical-sconomic calculations are said by the authors to be favourable to the use of ultrasonics, There are 5 figures. I table and 10 references; 8 of which are Soviet and 2 English.

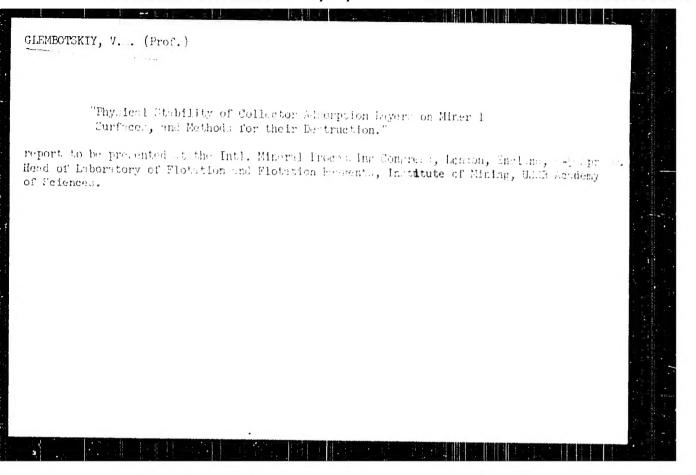
SUBMITTED: January 29, 1959

Card 4/4

GLEMBOTSKIY, V.A., prof., doktor tekhn.nauk, otv.red.; MAEO7SKIY, G.M., red.izd-va; KoLoKoL'NIKO7, K.A., tekhn.red.

[Mineral dressing] Obogashchenie poleznykh iskopaenykh, Moskva, 1960. 180 p. (MIRA 13:6)

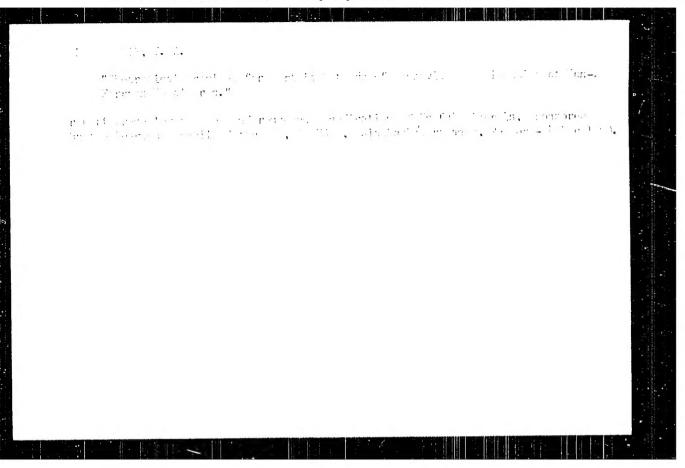
1. Akademiya nauk SSSR. Inatitut gornogo dela. (Ore dressing)



POL'KIN, Stepan Ivanovich, prof., doktor tekhn.nauk; KYGELES, M.A., prof., doktor tekhn.nauk, retsenzent; TROITSXIY, A.V., inzh., retsenzent; AVSEIENOK, A.F., otv.red.; GLEMBOTSXIY, V.A., red.; IEZDOKOVA, M.L., red.ind-va; PROZOROVSKAYA, V.L., tekhn.red.; BERASLAVSKAYA, L.Sh., tekhn.red.

[Flotation of rare metal and tin ores] Flotatsiia rud redkikh metallov i olova. Moskva, dos.nauchno-tekhn.izd-vo lit-ry pogornomu delu, 1960. 637 p. (MIRA 13:2)

(Flotation) (Nonferrous metals)



GLENBOTSKIY, V.A.(Moskva); KOLCH MAROVA, A.Ye.(Moskva)

Effect of heavy metal ions on the interaction of zinc blende and pyrite with mathates in flotation. Izv. Ali SSSR. Otd. tekh. nauk. Met.i topl. no.5:200-206 S-0 '60. (MIRA 13:11)

(Flotation) (Sphalerite)

S/194/61/000/008/061/092 D201/D504

AUTHORS:

Glembotskiy, V.A. and Kolchemanova, A.Ye.

TITLE:

The possibility of using ultrasound for the disintegration of flotation layers of reagent-collectors

at the surface of mineral particles

PERIODICAL:

Referativnyy shurnal. Avtomatika i radioelektronika, no. 8, 1961, 12, abstract 8 E84 (Nauchn. soobshch.

In-t gorn dela Mi SSSR, 1960, 6, 32-37)

The method of ultrasonic disintegration was examined for the adsorption layers of collectors formed at the surface of sulphide and non-sulphide minerals. The experiments were carried sulphide and non-sulphide minerals. The experiments were carried out at a frequency of 20 kc/s and intensity ~ 2 W/cm². It was found that subjected for 60 sec. only, the galenite with grains 0.1-0.15 mm has its flotation capability substantially changed and offer 3 minutes it loses it completely. The US has a good effect after 3 minutes it loses it completely. on pyrite and practically no effect on floated-off sphalerite and

Card 1/2

The possibility of using ...

S/194/61/000/008/061/092 D201/D304

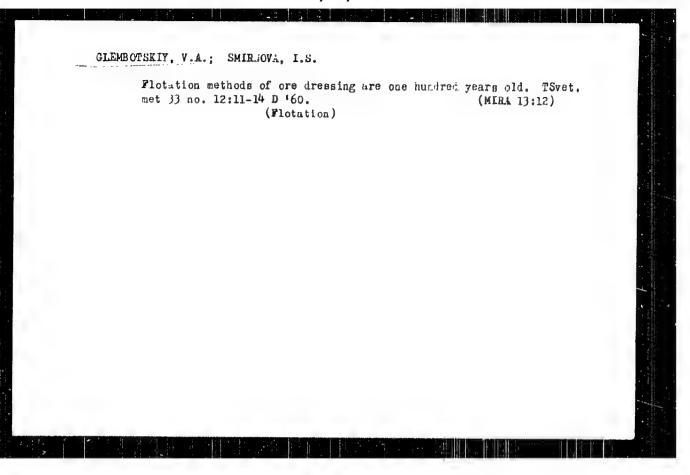
chalco pyrite which makes it possible to apply ultrasound for separating complex concentrates. In order to examine the effect of ultrasound, the influence of temperature on adsorption layers was analyzed in the range which take place in ultrasonic irradiation (30-60°G). It is shown that the temperature has practically no effect. All the other conditions being the same, the ultrasound has more effect on coarse-grained materials. Experiments were carried out to determine the optimum quantity of the collector required for subsequent ultrasonic processing. I figure. 5 tables. 2 references. Abstracter's note: Complete translation

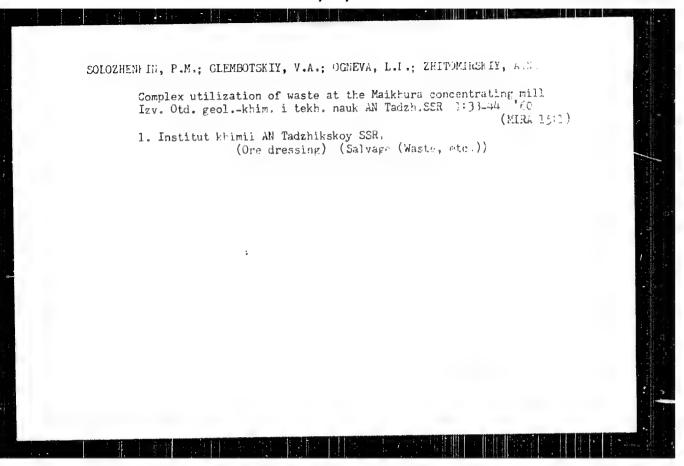
Card 2/2

GLEMEOTSKIY, V.A., doktor tekhn.nauk; SUROKIN, M.M., aspirant

Deactivation of sphalerite in an acid medium. Trudy Inst.gor.dela
6:77-84 160.

(Sphalerite)







GLEGOTSKIY, V.A.; SOROXIN, M.M.

New inhibitor for bornite and chalcosine in the selection of combined co.por-zinc and copper-lead concentrates. Bokl. AN SSST 134 no.5: 1146-1149 0 '60.

(MIRA 13:10)

1. Institut gornogo dela Akadomii mank SSSR. Predstavlono akademikom A.A.Skachinskim.

(Bornite) (Chalcocide)

GLEMBOTSKII, Vladimir Aleksandrovich; prof. dokt.tekhn.nauk; ELASSEN,
Villi Ivanovich, prof.dokt.tekhn.nauk; PLAKSIN, Igor' Mikologevich,; POL'KIN,S.I., otv.red.; RIKOT,N..., red.dad-va;
KACHALKINA,Z.I., red.izd-vo; SAL'ISOVSKII,M.S., red.izd-va;
PROZOROVSKAIA,V.L., tekhn.red. BOLDYREVA,Z.A., tekhn.red.

[Flotation] Flotatsiia. Pod obshchei red. I.N.Flakaina.
Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornowu delu,
1961. 547 p.

(MIRA 14:5)

1. Chlen-korrespondent AN SSSR (for Plaksin)

(Flotation)

GLEMBOTSKIY, V. A.

"The Flotation Characteristics of Quartz"

Report presented at the Colloquy on Preparation of Anorganic Non-Metallic minerals, Freiberg, GDR, .4-3) Aug 61

GLEMBJEKIY, V.A.; UVAROV, V.S.; SOLJZHENKIN, I.M.

Some flotation data on celestine. Izv. Stil. reol.-k*im. i teka.
nauk AN: Tadzh. SSR No.1:51-56 '61. (Nira 14:9)

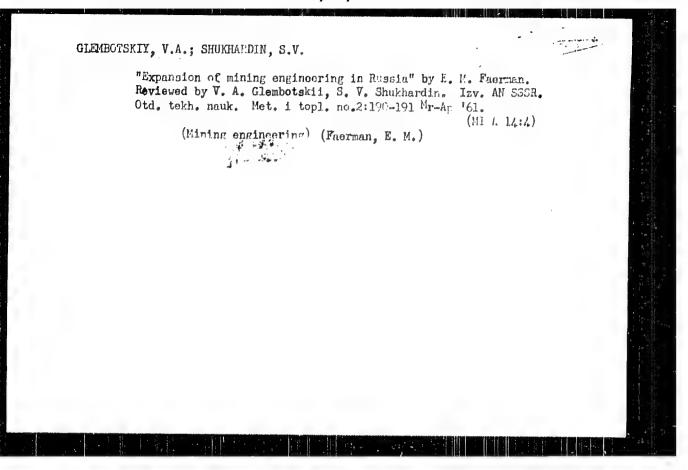
1. Institut khimii AN Tadzhikskoy SSR.
(Celestite) (Flotation)

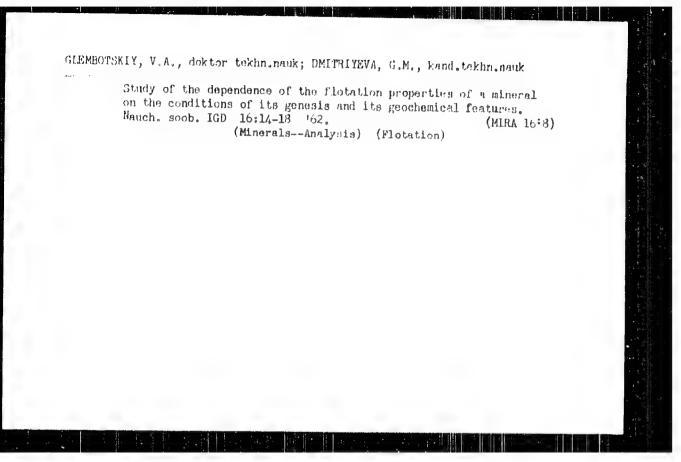
GLEMBOTSKIY, V.A.: UVAROV, V.S.; SOLOZHENKIN, P.M.

Studying the effect of some electrolytes on the flotation of celestine ty means of various collectors. Izv. Otd. geol.-khim. i t-kh. nauk All Tadzh. SSR No.1:57-62 '61.

1. Institut khimii All Tadzhikskoy SSR.

(Celestite) (Flotation)





GLEMEOTSKIY, V.A.; KULIKOV, I.M.

Effect of calcium and magnesium ions on cerussite sulfidizing and flotation processes. Izv. vys. ucheb. zav.; tsvet. met. 5 no.2:78-94 '62. (Nid. 15:3)

1. Irkutskiy politekhnicheskiy institut, kafedra obopashcheniya poleznykh iskopayemykh.

(Cerussite) (Ore dressing) (Ion exchange)

CLEMBOTSKIY, V.A.; KULIKOV, I.M.

Positive effect of ammonium sulfate on processes of sulfidizing and flotation of cerussite in presence of calcium and magnesium ions.

Izv.vys.ucheb.zav.; tsvet.met. 5 no.3:32-41 '62. (MIRA 15:11)

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(Gerussite) (Flotation)

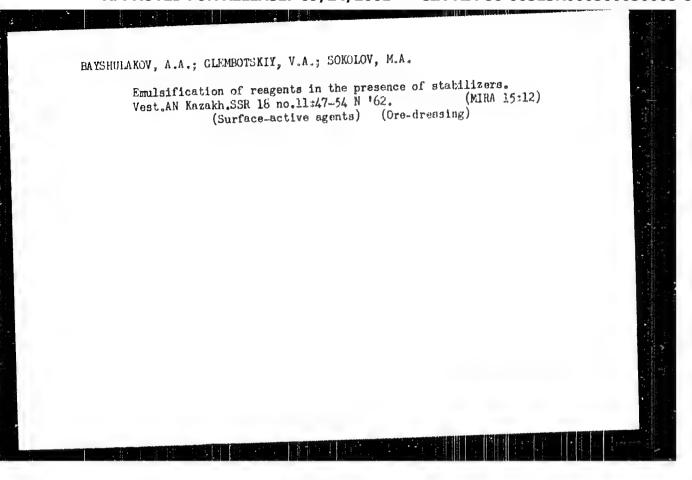
"APPROVED FOR RELEASE: 09/24/2001

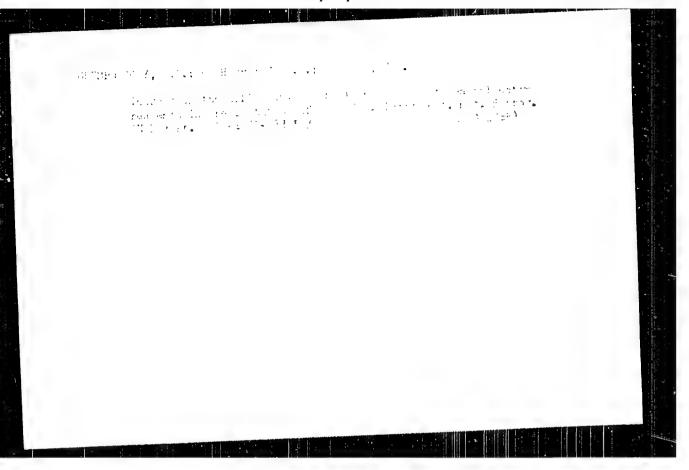
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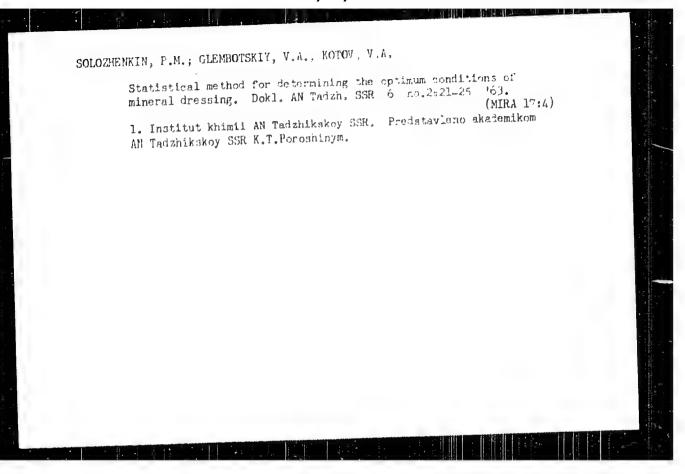
PLAKSIN, I.N., otv. red.; GLEMBOTSKIY, V.A., doktor tekhm. nauk, zam. otv. red.; KLASSEN, V.I., doktor tekhm. nauk, red.; OFOLOVICH, A.M., kand. tekhm.nauk, red.; TRET YEKOV, O.V., red.; BARSKIY, L.A., kand. tekhm. nauk, red.; BARGVOKIY, G.H., red. izd-va; GOLUB', S.F., tekhm. red.

[Gre drossing and coal preparation in the Kazakh S.S.k.; transactions of the out-of-town mession in Balkhash and Karagenda, of the Section on Fineral breasing of the Loarned Council of the A.A.Skochinskii bining Institute (Rovember-December 1960)]Zadachi obogashcheniin rud i uglei Kazukhskoi SSR; trudy vyezdnoi sessii sektsii obogashcheniin poleznykh iskopaenykh Uchenogo soveta Instituta i gornogo dela ir. A.A.Skochinskogo v gorodakh Balkhashe i Karagende, noishridekabri 1960 g. Moskva, Izd-vo Akad. nauk SSSR, 1962. 173 p. (MICA 15:10)

Chlen-korrespondent Akademii nauk SSSR (for Flaksin).
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 (Ore dressing) (Coal preparation)







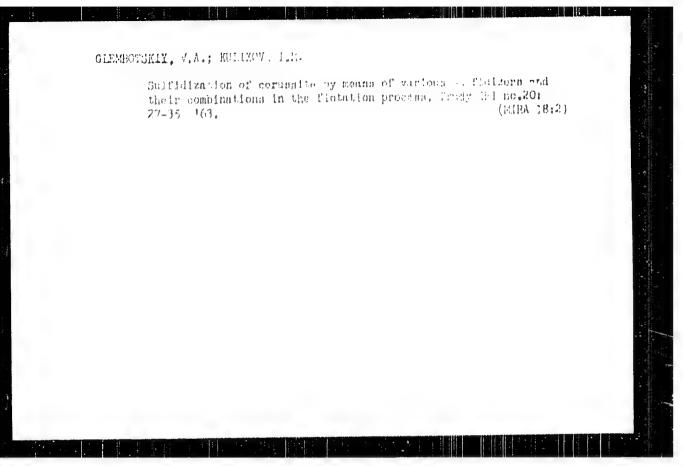
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Rate of formation of an abserption layer of flotation agents on mineral particles. Vest. AN Kazakh.SSR 19.no.2:17.-20 F **163.**

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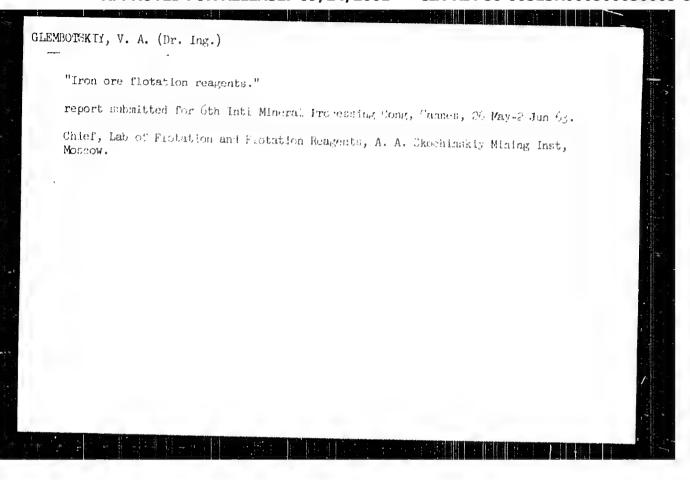
(Flotation)

(Flotation)



"APPROVED FOR RELEASE: 09/24/2001 CIA-R

CIA-RDP86-00513R000500030005-8



SOROKIN, M.H., kard.tekhn.neuk, prof : GLEMEGTSKIY, V.A., doktor tekhn.nauk;
RAUKEYMEER, Ye.L., hand.tekhn.neuk
Flotation properties of some compounds of the aromatic series, Nauch, soob, 16D 19:12-23 163. (MIRA 17:2)

GIEMBOTSKIY, V.A.; UVAROV, V.S.

Mechanism underlying the softwating effect of some water-soluble compounds on the flotation of celestine and anhydrite. Dckl.

AN Tadah. SSR 6 no.3:28270 463. (MIRA 17:4)

1. Institut khimii AN Tadahay koy 338t. Predstavleno chlenom-kor-respondentom AN Tadahikskoy ASK V.I.Sikitinym.

GLEMBOTSKIY, V.A.; UVAROV, V.S.

Effect of sodium sulfide on the flotation of celestine and anhydrite. Dckl. AN Tadzh. SSR 6 no.5:24-27 '63. (MIRA 17:4)

1. Institut khimii AN Tadzhikskoy SSR. Predstavleno chlenom-korrespondentom AN Tadzhikskoy SSR V.I.Nikitinym.

GLEMBOTSKIY, V. A.; ANFIMOVA, Ye. A.

"Specific or stallochemical and structural features of oxidized minerals of lend and influence on the choice of reagents for the flotation of these minerals."

report submitted for 7th Intl Mineral Processing Cong., New York, 20-25 Sep 64.

GLEMOTSKIY, V.A., prof. doktor tekhn. nauk, otv. red.; VASIL'YEV, b.K., red.

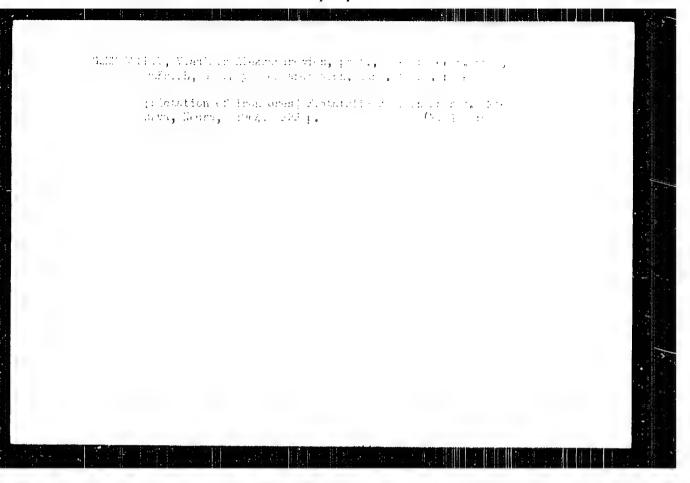
[Intensification of the flotation process] Intensifikational flotational process. Moskva, Nauku, 1964. 46; (MIFA 17:12)

1. Moscow. Institut gornogo dela im. A.A.Skockinskogo.

GIFMBOTSKIY, Vladimir Aleksendrovich; EMITHIYEVA, Gali
Mikhtylovna

[Effect of the origin of minerals on their flotation
characteristics] Vliianie genezica mineralov na ikh flotatsionnye evoistva. Koskva, Izd-vo "Nauka," 1965. 110 p.

(MINA 19:3)



ARASHKEVICH, Veevoled Harkovich; BellDAt', H.Z., retrenzent;
GLEMEOTSKIY, V.A., prof., doktor tekhn. nauk, retsenzent;
EUNIK, V.F., red. 1zd-va; BellYREVA, Z.A., tekhn. red.

[Dressing of nonferrous metal ores] Obogashehenie rud tsvetnykh metallov. Moskva, Izd-vo "Hedra," 1964. 492 p.

(MIRA 17:2)

GLEMBOTSKIY, V.A., prof., KOSHERBAYEV, K.T. inch.

Increating the effectiveness of the flotation of sulfide ores using the method of separate processing of various fractions of a polydispersed pulp. Tav. vys. ucheb. zav.; gor. thur. 7 no.5:129 155 164. (MERA 17:12)

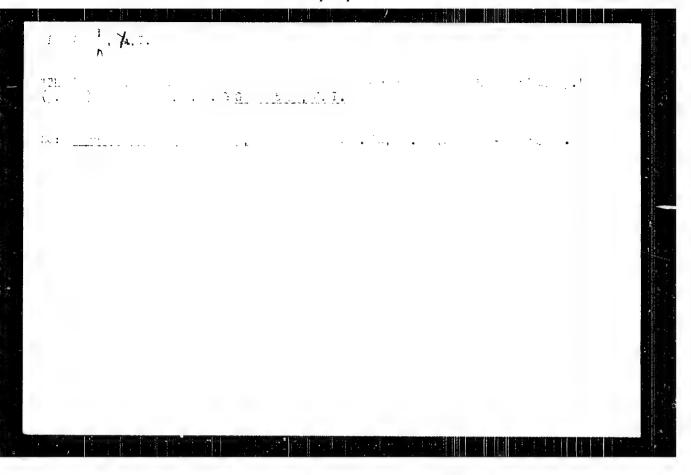
1. Insural gorango dels iment A.A. Skochirskogo.

GLE ROTSKII, Ya. L.

"Congressive rate of direct and reverse mutations in the lock of Yellow, Achieve-Scutz, White and Forked M Dronomida Melanomenter." Chair of Genetics (Prof. M. I. Dubinin) All-Union Zootechnical Institute of Fur-Searing Annuals at Dalashikha near Moscow.

(p. 813) by Glerbotskii, Ya. L.

30: Biological Journal (Biologicheskii Zhurnal) Vol. V, 1936, No. 5



GLEMECTURIT, Ya. L.

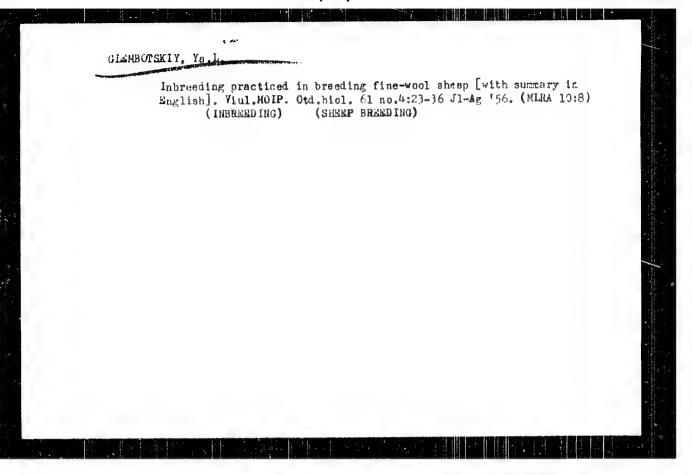
6827. Kalinin, A. D. i Glembotskiy, Ya. L.
3500 kllogrammov moldka ot Kazhodoy korovy. (Opyt raboty markhin.
Podsobnogo bhozynystva Toru vymorpiti). Takutsk, Takutshivolzdak,
1954. 28 s. 20 sm. (M-vo saliskogo khozynystva yakut. ANNR. Uchastniki
"akhv) 3,000 ekz. 30 k. - (55-28/1) ? 636.1.023 at (57.31)

30: Knizhnaya Letopia! No. 6, 1955

GLEMBOTSKIY, Ya.L.; POPOV, S.N.

"Present state and prospective development of units, bushanit, in Lean and Olekainsk Districts of the Yakut A.S.Jik."

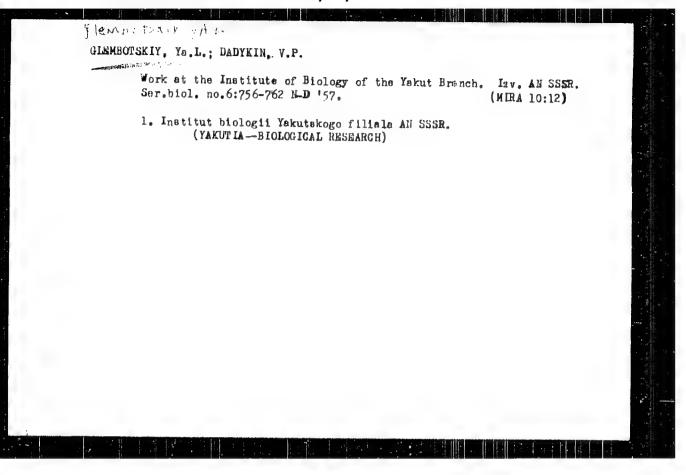
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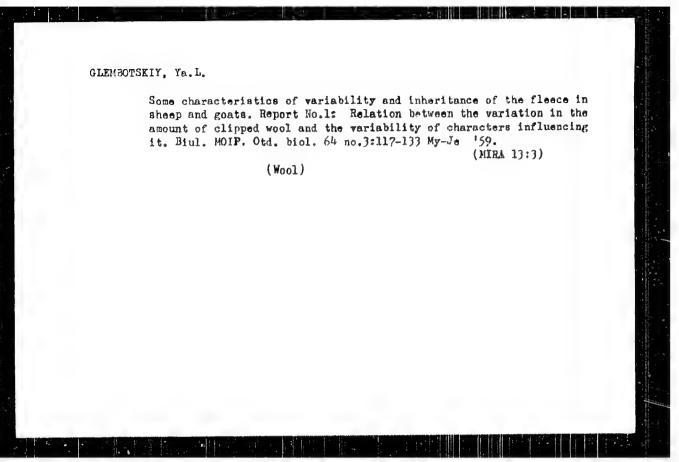


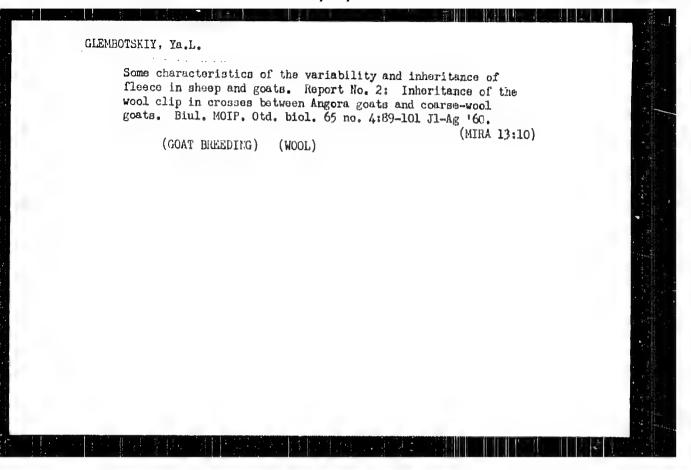
GLEMBOTSKIY, Ya.L., kand.sel'akokhoz.nauk, otv.red.; KUSTUROV, D.V..
red.1zd-va; PARNIKOV, Ye.S., tekhn.red.

[Reports at the Eighth Scientific Session; botany, soil science, zoology, animal science] Doklady na Vos'moi nauchnoi sessii; botanika, pochvovedenie, zoologiia, zootekhniia. IAkutak, IAkutakoe knizhnoe izd-vo, 1957. 310 p. (MIRA 12:10)

Akademiya nauk SSSR. Yakutakiy filial, Yakutak.
 (Yakutia--Natural resources) (Yakutia--Agriculture)







GLEMBOTSKIY, Ya.L.; ABELEVA, E.A.; LAPKIN, Yu.A.

Effect of fractionation of the gamma-ray dose an mutation frequency in spermatide of Drosophila melanguater. Radioblologija 1 no.1: 119-122 '61. (MEA 14:7)

1. Institut biologicheskoy fiziki AN SSSR, Moskva. (GAMMA RAYS—PHYSIOLOGICAL EFFECT) (ZOOLOGY—VARIATION)

\$/560/61/000/010/009/016

27 1270

D298/D302

AUTHORS -

.Glembotskiy, Ya. L. Abelyeva, E. A. Lapkin. Yu A and Parterov, G 1

TITLE:

The effect of cosmic flight factors on the occurrence frequency in Drosophila Melano gaster of recessive lethal mutations in the

X-chromosome

SOURCEL

Akademiya nauk SSSR - Iskuastvennyye sputniki Zemli no 'O Moscow, 1961 61-68

Reference is made to early studies of mutagenic changes under the effects of ionizing radiation. Experiments on yeast and drosophila pointed out the minimal effect of cosmic radiation on the natural mutation process. Further studies on drosc-phila confirmed the insignificance of cosmic radiation in spontaneous mutation More recent studies have been undertaken by the authors on two strains of Drosophila Melanogaster -- the 1.33

Card 1/4

\$/560/61/000/010/009/016 D298/D302

The effect of cosmic

Card 2/4

(D-32) and [0.19 (D-18)] to determine the nathgenic effect after a cosmic flight on the organism. The flight of the 2nd Sputnik lasting about 24 hr and conducted at a height of 300 km, was used to study the effects of cosmic radiation on the heredity of the drosophila Two types of tests were carried out: (1) to determine the occurrence frequency of recessive lethal mutations in the X-chromosome (sex linked), and (2) to determine the occurrence frequency of dominant lethal mutations causing death in the early developmental stage of heterozygous organisms in these mutations The mutability of the two spermatogenic stages was compared -- that of the spermatid and that of the nature sperms. The frequency of induced mutations was studied, depending on the frequency of spontaneous mutations. Cross-breeding of the flies which underwent cosmic flight was performed in August 196! to determine the sex linked recessive lethals. The Muller-5 method was used for this purpose. The \mathbb{F}_2 (second generation) ation)culture percentage with no grey-red-eyed females was taken

33311 \$/560/61/000/010/009/016 D298/D302

The effect of cosmic...

as index of the occurrence frequency of recessive lethal mutations in the X-chromosomes of the females which had been in cosmic flight. In both strains (D-32 and D-18), it was found that the mutagenic effect is characterized by a statistically valid increased frequency of sex-linked recessive lethal mutations, whereby the D-18 strain (with a higher spontaneous mutability) appeared to be the more sensitive to mutagenic effect. The dotted nature of the induced mutations (20 tested cytologically) and the elevated frequency of mutation of the spermatid, as compared to the sperms, indicates their possible stipulation by cosmic radiation. It is emphasized that an accurate determination cannot be made of the role played by cosmic radiation in the mutagenic effect noted during relatively short cosmic flights. Further experiments to clarify the mutugenic effect of vibrations, acceleration, and weightlessness should be carried out. There are 1 figure, 1 table and 11 references: 2 Soviet-bloc and 9 non-Soviet-bloc. The references to the English-language publications read as follows: 0. G. Fahmy.

Card 3/4

D/560/61/000/010/009/016

The effect of cosmic. . D293/D302

M I. Fahmy, Genet. Res. 1, 173, 1960; P T Ives Froc. Nat Acad. Sci. USA, 45, N 2, 1959

SUBMITTED: May 3, 1961

- 1713

\$/560/61/000/010/011/016

D298/D302

27 12.20

AUTHORS:

Glembotskiy, Ya. L., Prokofieva-Bel govekaya, A. A., Shamina, Z. B., Golidat, S. Yu., Khvostova, V. V., Valeva, C. A., Eyges, N. S., and Newsgoding, J. V.

and Nevzgedina, L. V

TITLE:

Effect of cosmic flight factors on the heredity

and development of actinomycetes and higher

plants

SOURCE,

Akademiya nauk SSSR. Iskusstvennyye sputniki

Zemli. no. 10. Moscow, 1961, 72-8;

TEXT: The second cosmic space-ship was utilized to study the combined genetic effect of cosmic flight on organisms article deals with the study of the following cultures: actino. myces erythreus, stems 2577 and 8594, and actinomyces streptomycini Kras., stem //(-3 (LS-3)). After the cosmic flight, the

Card 1/4

1,2 4, 1

Effect of cosmic, .

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standards and experimental cultures were investigated according to: (1) vitality and (2) a microscopic characteristic of growth and development. The 2577 and 8594 stems differ by the sizes of their nuclear element in the spore and by their sensitivity to ultra-violet rays (UV). It is also assumed that they differ in their reaction to ionizing radiation. All the 4 tested stems were found to be sensitive to conditions of cosmic flight. The vitality (i.e., the number of spores which survived and developed colonies) of the radio-resistant act. erythreus 2577, as compared to the standards, increased 6 times; the no. 8594 decreased 12 times; the act. sureofacters 17.5-220 (LSB-2201) dropped in vitality by about 75% on the average. In the roots of all 5 types of experimental seeds, the percentage of chromosome changes was somewhat increased. However, only in the case of 2 types was this increase statistically valid. In 3 types of plants, in increase of mitosis was noted. In the case where the percentage of anaphases with chromosome changes was found

Card 2/4

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Effect of cosmic.

to be high (about 5%), the tempo of mitosis fell. The conditions of cosmic flight stimulated the growth intensity compared to the standards The following microscopic morphology features of the experimental cultures confirm this fact (a) development of a more basiphyllic and powerful gif, (b) growth of a thicker intertwining of mycelia, (c) lengthy growth of well-developed gifs. Data on the survival of the 8594 and 2577 stems are not completely valid since the concentrations of the spore suspensions of the control and experimental cultures were determined visually from the suspension turbidity. The morphology changes in the colonies were investigated on the act. erythreus 8594 and act, aureofaciens LSB-220!. Obtained data show that the morphology changes in the actinomyces, both in the experiment (cosmic flight) and control, lie within the same limits. The cytology analysis of agricultural plant seeds affected by cosmic flight was conducted by studying the chromosome impairment in the ana- and telophases of the first mitosis Obtained results

Card 3/4

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Effect of cosmic. ..

showed that in all the investigated plants there is a certain increase of cells with chromosome changes, and in only 2- winter wheat and Spartanet's peas--is this increase statistically valid. There are 4 figures, 2 tables and 5 references: 4 Soviet bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: S. B. Pipkin W. N. Sullivan, Aerospace Med., 30, 585, 1959.

SUBMITTED: May 3, 1961

Card 4/4

12696

\$/747/62/000/000/020/025 D243/D307

AUTHORS: Glembotskiy, Ya. L., Abeleva, E. A. and Lapkin, fu. A.

TITLE: The effect of small doses of ionizing radiation on the

frequency of occurrence of sex-linked, recessive, lethal

matations in brosophila

JoukCa: Radiatsionnaya genetika; abornik rabot. Otd. biol. nauk

AN JEGR. Moscow, Izd-vo AN SSSR, 1962, 300-511

TLAT: The preliminary results are given of experiments carried out from 1959 to March 1961, to study the effect of 20 r doses of radiation on the frequency of sex-linked, recessive lethals, in relation to a) type of radiation-grays or high speed neutrons; b) radiation intensity — single or repeated doses; c) gamete development — mature operm or spermatids; d) interstrain differences in spontaneous mutation rate. It is stated that little work has been done on the effects of sub-25 r doses, especially as regards the existence of a threshold and accumulative effects. The experiments were carried out on A-48 and A-32 (D-18 and D-32) prosophila lines, dif-

Card 1/2

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CIA-RDP86-00513R000500030005-8

The effect of small ...

3/747/62/000/000/020/025 D245/D307

fering considerably in the spontaneous rate of mutation. Spontaneous and induced lethnic were detected by the Huller-5 method. Job & rays were delivered it 0.9) ryain. Experiments with high-speed neutrons began in May o, asin, a 1000 ky reactor, the dose intensity being 115 cynr. The results refer only to experiments with D-32 line. The authors found that D-r doses of & radiation increased the frequency of recessive lethnis in sperm and spermit ds and repeated radiation produced a cumulative, mutagenic effect. The relative frequency of recessive tetrals per radiation induced by repeated 5 r realiation agrees with the data of other authors using higher Single 1999s. The mutagenic effect of nigh-speed neutrons is 1 1/2 -I times greater than that of g rays. Spermatids had a higher mutation frite than sperm, with both types of radiation. No threshold offect was commothated and it is subjected that, should a threshold by actuation, is will be apecific to the type of radiation, type of matrition, where of game togenesis, and the organism. The danger to namen germinal cells of low doses of % rays, and especially, high-ADDOGIATION: Institut biologicheskoy fiziki AN SSSR, Moskva (Institute of Biological Physics, AS USSR, Moscow)

GLEMEOTSKIY, Ya.L.; ABELEVA, E.A.; LAPKIN, Yu.A.; PARFERDV, G.P.

Effect of space flight factors on the frequency of the appearance of recessive lethal mutations in the x-chromonoms of Drosophila melanogaster. Probl.kosm.biol. 1:219-231 62. (MIRA 15:12)

(SPACE FLIGHT—PHYSIOLOGICAL EFFECT)

(VARIATION (BIOLOGY))

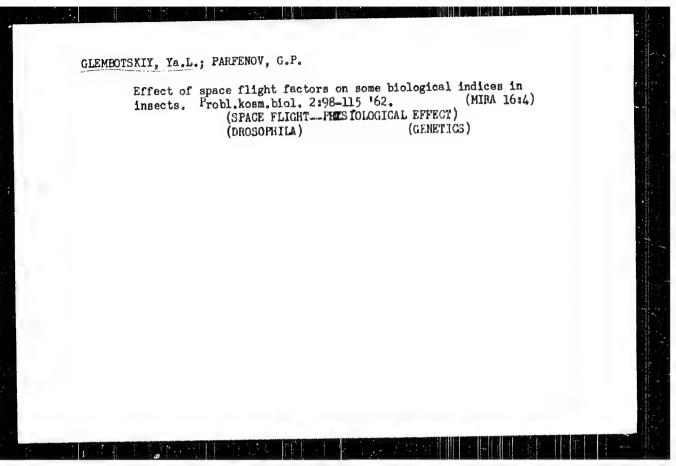
GLEMBOTSKIY, Ya.L.; PROKOF'YEVA_BEL'GOVSKAYA, A.A.; SHAMINA, Z.B.;
KHVUSTOVA, V.V.; VALEVA, S.A.; EYGES, N.S.; NEVZPOGINA, L.V.

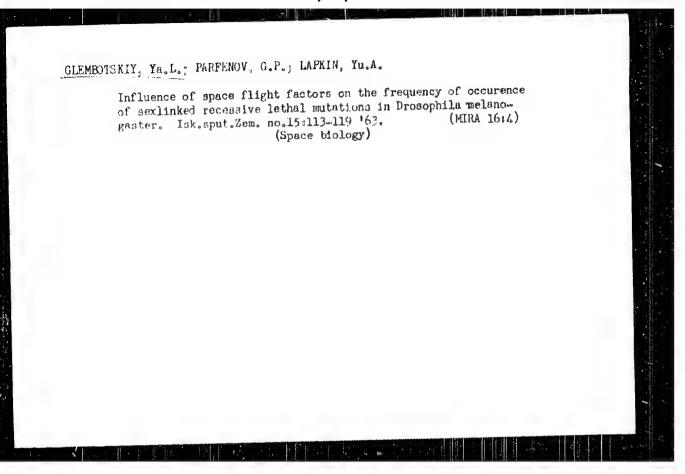
Effect of space flight factors on the heredity and development in actinomycetes and higher plants. Probl.kosm.biol.

1:236-247 '62.

(SPACE FLIGHT—PHYSIOLOGICAL EFFECT)

(SPACE FLIGHT—PHYSIOLOGICAL EFFECT)

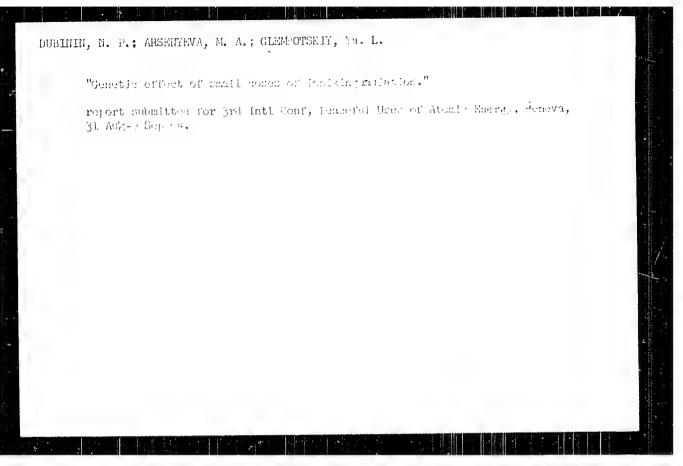




GLEMEOTSKIY, Ya.L.; LAPKIN, Yu.A.; PARPENOY, G.P.; KAMSHILCVA, Ye.M.

Effect of cosmic flight factors on the frequency of occurrence of sex-interlinked recessive lethal mutations in Drosophila melanogaster. Kosm. issl. 1 no.2:327-334 S-0 '6'.

(MIRA 17:4)



KUZIN, A.M.; GLEMBOTSKIY, Ya.L.; LAPKIN, Yu.A.; KALENDO, G.S.; BREGADZE, Yu.I.; MAMUL', Ya.V. [deceased]; MYASNYANKINA, Ye.N.

Mutagenic effectiveness of incorporated C¹⁴. Radiobiologia 4 no.6: 804-809 *64. (MIRA 18:7)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

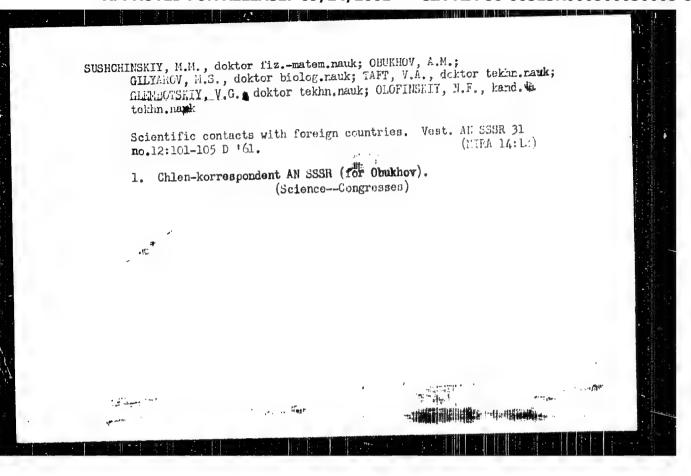
GLEMBOTSKIY, Ya.L., kand. sel'klom. nauk, otv. red.; MICAYNIE, A.T., red.

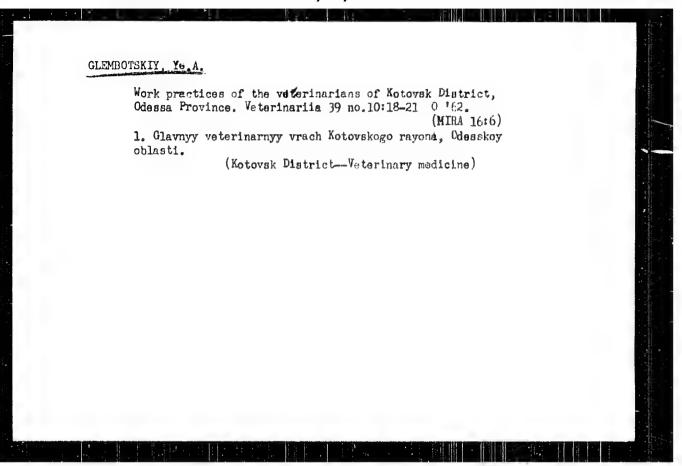
[Judging and selecting herd rams of the Altai Shre-wool breed] Otsenka i otbor proinvoditelei Altaiskoi tonkorunnoi porody. Novosibirsk, Nauka, 1960. 15F p. (Mich 1981)

1. Akademiya nauk BSSH. Sibirskoye otdeleniye.

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SEVERIN, S.Ye.; GLEMZHA, A.A. Effect of implayole derivatives on pyrovic desymments in the muscle (tasue, Biokhimiin 70 mg/d)]]70-176 N. 04. 1. Kafedra biokhimii zhivotovki biologo-pionvennich imiuliteta Gardanstvennogo universiteta imen' M.V.L sercese, Messya. Substitted June 24, 1964.

CEKANSKI, Adam; GLENC, Franciszak

Colposcopic examinations of erosions of the vaginal part;
material of II Obstetric and Women's Diseases Clinic of the
Medical Academy in Bytos, Gin. polska 29 no.1:23-31 Jan-Fob
57.

1. Kierownik: prof. dr. B. Stepowski. Bytos, Klinika Poloznicza
i Chorob Kobiecych, Al. Batorego 15.

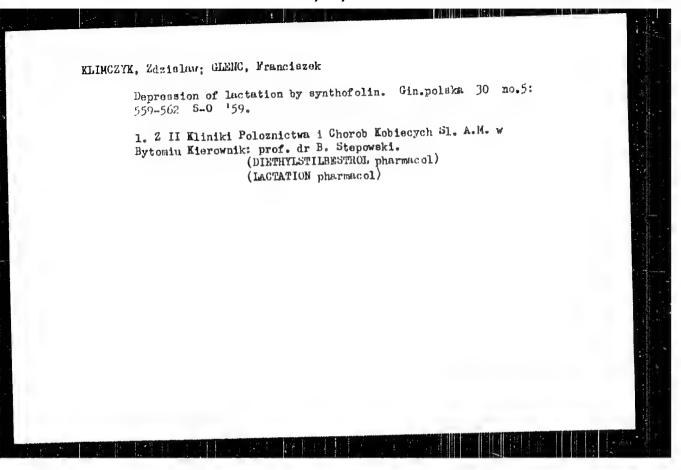
(CERVIX, UTERINE, dis.
erosion of portic vaginalis, colposcopic exam.,
statist. (Pol))

GLENC, Franciszek

Trentment of erosion & rupture of the portio of the uterac with electrocompulation, Gin. nolum 29 no.5:493-498 Sept-Oct 58.

1. Z II Kliniki Poloznictwa i Chorob Kobiecych A. M. w Rytoniu Kierownik: orof. dr. med. B. Steonwski Raciborz--ul. Wojska Polskiego
2.

(CERVIX, UTERINE, dis.
erosion & runt., ther., electrocompulation (Pol))
(ELECTROCOGULATION, in various dis.
cervical crosion & runt. (Pol))



CEKANSKI, Adam; GLENC, Franciszek; JONEK, Jan

Obgervations on nuclear chromatins in parents of infants with developmental defects. Girok. pol. 33 no.5:581-584 162.

1. Z II Kliniki Poloznictwa i Ghorob Kobiecych Slaskiej AM w Bytomic.

Kieromik: prof. dr med. B. Stepovski.

(ABHORMALITIES) (SEX CHROMATIN)

JONEK, Jan; GLENC, Franciszek

Behavior of alkaline and acid phosphatases and of ATFase in the uterine mucosa of menopausal women. Endokr. pol. 1/2 no.1:
35-99 163.

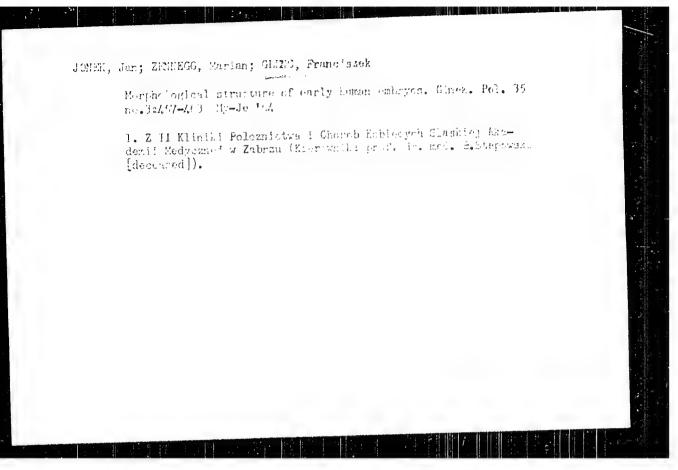
1. II Klinika Polozniczo-Ginekologiczna Sl. AM w Zabrzu-Rokitnicy Kierownik: prof. dr Br. Stapowski.

(MENOPAUSE) (MUCOUS MEMBRANE)

(ALKALINE PHOS PHATASE) (HISTOCHEMISTRI)

(ACID PHOS PHATASE) (ADENOS HE TRIPHCS PHATASE)

(UTERUS) (FALLOPIAN TUBES)



GLENCIU, L.

The conquerors of the stratosphere: ARIFILE PATRIEI. (Asociatia Voluntara pentru Sprijinirea Apararii Patriei) Bucuresti. p. 16. Vol. 2, no. 8, Aug. 1956.

SOURCE: East European Acessions List, (EEAL), Library of Congress, Vol. 5, No. 11, November, 1956.

HUNGARY/Soil Science - Mineral Fertilizers.

Abs Jour : Ref Zhur Biol., No 22, 1958, 100064

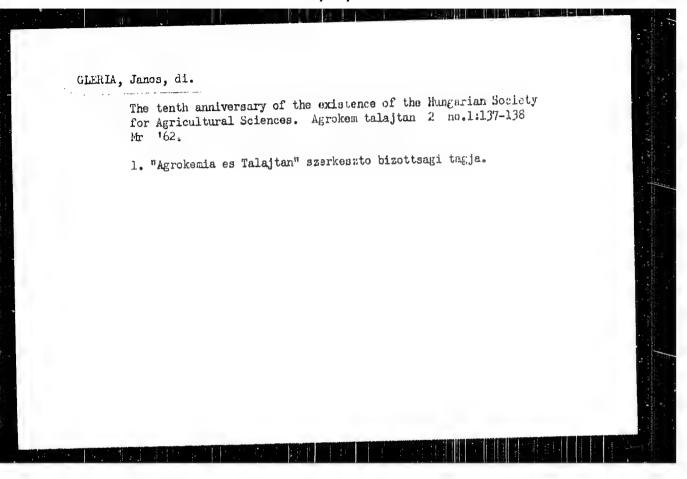
Author : Gleria, J.

Inst : . Translation of Isotopes and Investigation of Fertilizers

Orig Pub : Agrokem. es. talaj., 1957, 6, No 3, 237-244

Abstract : No abstract.

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GLERYTH, A.

Silde for projecting the transportation of soil on 600- ma working tracts. (Corclusion) p. 263. Vol. 10, no. 11, Nov. 1955; Drogovnictwo.

SCURCE: East European Accessions (Eddi), EG, Vol. 5, no. 3, March 1956.

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Nervous System. Higher Nervous Activity.

Lehavior.

Abs Jour: Ref Zhur-Biol., No 17, 1958, 80047.

Author : Glesalyan, L.S.

Inst :

Title : On the So-Called Active Mavements of a Dog's Faw.

Orlg Tub: Izv. AN ArmSSR. Biol. i s.-kh. n., 1957, 10 No 8.

59-63.

Matract: Conditioned food reflexes of a passive idea of the

posterior right paw were formed in dogs. The active movement of this paw, observed between application of stimulators, did not depend on the degree of satintion of the dog. Defore the application in the sterestype of a negative conditional stimulator, and following

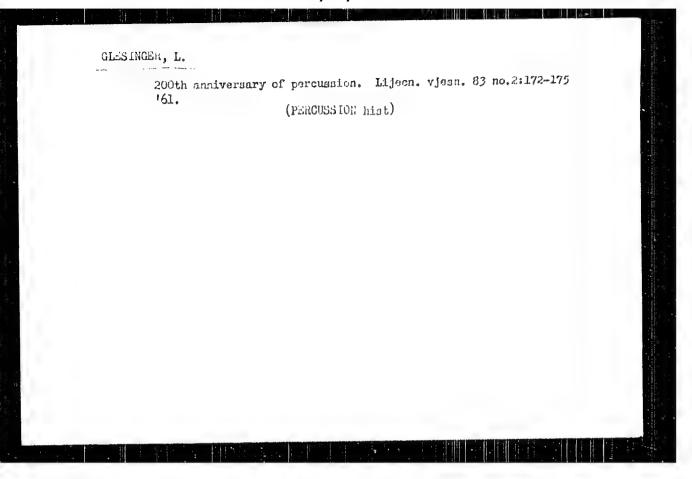
Card : 1/2

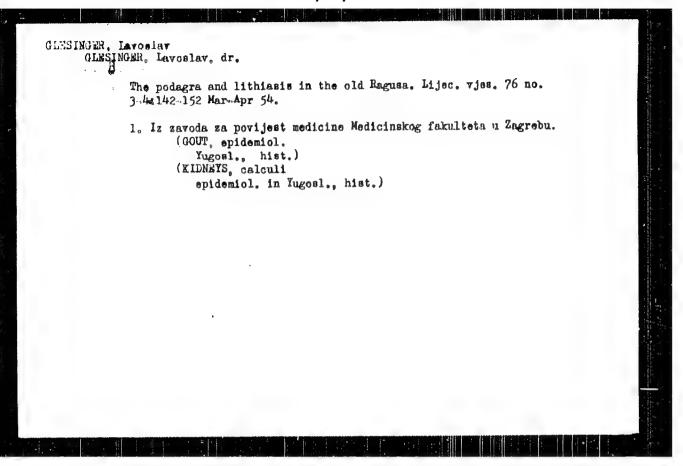
GLESG, A.

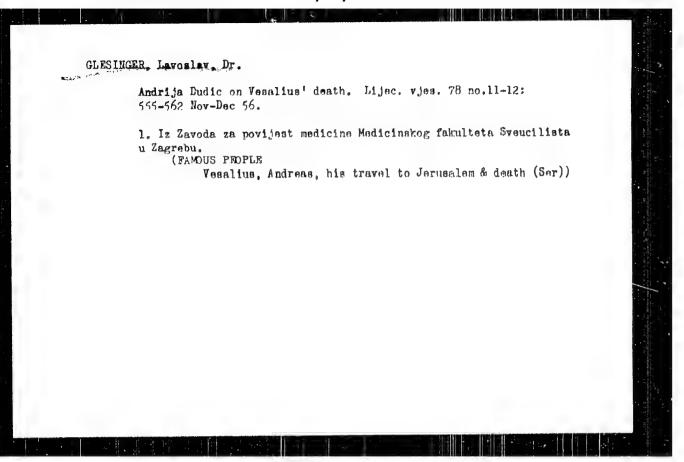
Manufacture of stained asbestes cerent roofing. p. 238.

STAVBA. (Poverenictvo stavebnictva) Bratislava, Jacohoolovskia. Vol. 6, no. 8, Aug. 1959.

Monthly list of East European Accessions (EEAI) LC, Vol. 8, nc. 10, Oct. 1959. Uncl.







Pr Lavoslav GLESINGER, Institute for the Mistory of Natural, Medical and Mathematical Sciences of the Yugoslav academy of Arts and Sciences (Institut za povijest prirodnih, matematickih i medicinskih nauka JAZU Jugoslavenska Akademija Enamosti i Pmjetnosti, Jagreb

"Anton Mihelic (1742-1816) and Mis Contribution to Neurophysiology."

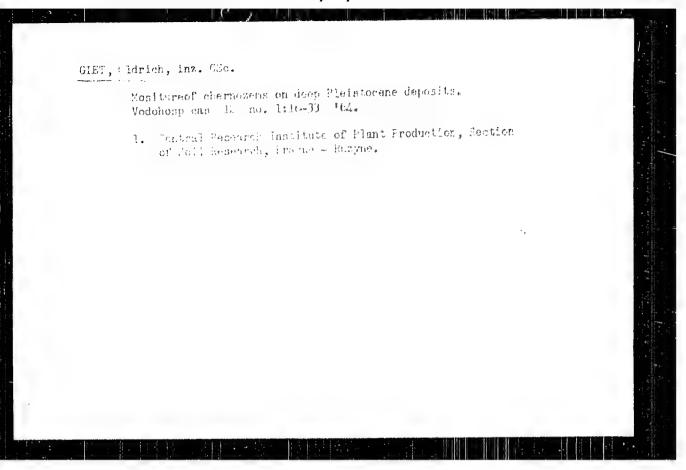
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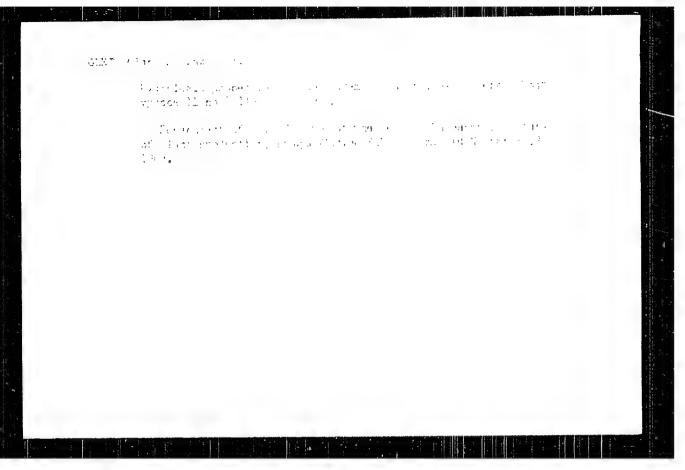
Abstract [English summary modified]: Review of the work of this Slovenian physician and teacher classmate (in Vienna) of Prochazka, who taught physiology rathology and materia medica in Prague, was later dean of medical school there, wrote 8 medical books in which he gave the "coup de grace" to old theories of nerve transmission through hollow nerves or by mechanical vibration or oscillation. Sixty-two historical references.

GLET, Oldrich, inz. CSc.

Characteristics of the physicohydrologic properties of
Czechoslovak soils. Rost vyroba 10 no. 5/6:600-609
My-Je 164.

1. Central Research Institute of Plant Production,
Frague - duzyne.

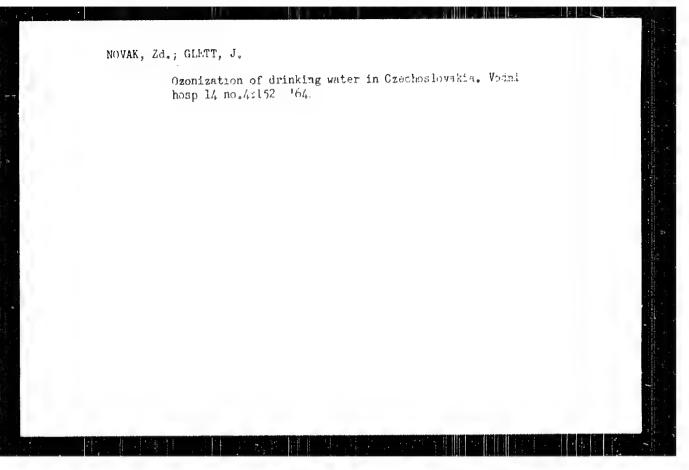




BENEZEROV, A.I.; BRODGETY, YU.A.; FACERETYE, Z.I.; VERNERG, K.L.;
GALDINA, E.M.; GLETMAN, E.A.; GINZBURG, L.B.; GUTCF, V.G.;
GUREVICH, L.R.; DAUVALTER, A.L.; YEGGROVA, L.S.; KCTIYAL,
A.Ye.; KUZYAK, V.A.; MAKAROV, A.V.; FOLIYAK, V.V.; FOFOVA,
E.M.; F.YARIGHRIKOV, V.F.; STETTERRE, J.E.; SILVESTROVICH,
S.I., kand. tekhm. nauk, dots.; SGLOPIN, E.V.; SILVESTROVICH,
S.I., kand. tekhm. nauk, dots.; SGLOPIN, E.V.; SILVESTROVICH,
G.A.[deceased]; KITAYGO.ODSEF, I.I., zael. doystel' nauki i
tekhmiki ROFSR, doktor tekhm. nauk, prof., red.; GCTGGGVA.
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[Handbook on glass manufacture] Spravochnik po proizvodstvu stekla. [By] A.I.Berezhnoi i dr. Pod red. I.I.Kitaigerodskogo i 3.I.Sil'vestrovicha. Moskva, Gosstroiizdat. Vol.2. 1963. (MisA le:12)

(Glass manufactur.)



C. LEZA MEVER MA.

USSR/Physical Chemistry - Molecule. Chemical Bond

B-4

: Referat Zhur - Khimiya, No 2, 1957, 3543

Author Inst

Abs Jour

: Glevashev, G. Ya. : Kazan' University

Title

: Dependence of the Configuration of the Resonance absorp-

tion Curve on the Temperature.

Orig Pub

: Uch. zap. Kazanskogo un-ta, 1956, 116, Ro 1, 121-126

Abstract

: For the system of spins of a crystal of suppressed orbital magnetism there have been calculated the moments of resonance curve of absorption of zero ($\mathbb{A}_{\mathcal{O}}$), first ($\Delta_{\mathcal{V}_{\mathcal{O}}}$), second ($\Delta_{\mathcal{V}_{\mathcal{O}}}$), fourth ($\mathbb{A}_{\mathcal{V}_{\mathcal{O}}}$) orders, taking into account the temperature dependence. Energy of the system of spins consists of energy in the external field $\mathbb{A}_{\mathcal{O}}$ and energy of dipole and exchange interaction $\mathbb{A}_{\mathcal{O}}$. In the calculations it was considered that $\mathbb{A}_{\mathcal{O}} \gg \mathbb{A}_{\mathcal{O}}$ and $\mathbb{A}_{\mathcal{O}} \gg \mathbb{A}_{\mathcal{O}} \gg \mathbb{A}_{\mathcal{O}} \gg \mathbb{A}_{\mathcal{O}}$

were calculated in relation to Larmor frequency.

Card 1/3

- 10 -

USSR/Physical Chemistry - Molecule. Chemisal Bond

B-4

Abs Jour : Referat Zhur - Khimiya, No 2, 1997, 3513

Card 3/3

- 3/2 -

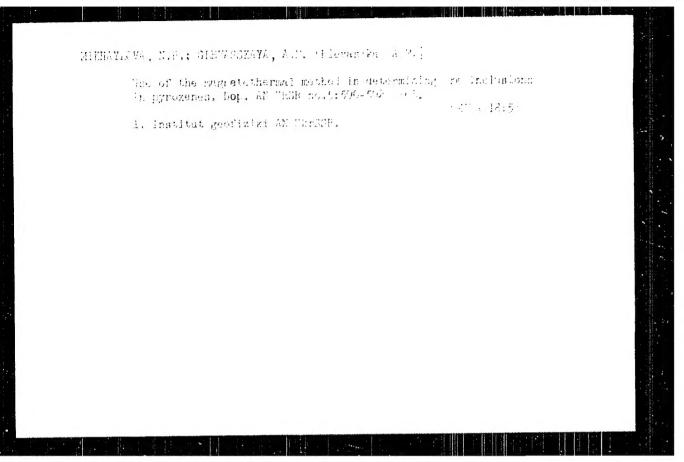
MIKHAYLOVA, Ninel' Petrovna; GLEVASSKAYA, Alla Mikhaylovna; KRUTIKHOVSKAYA, Z.A., kani. geol.-miner. nauk, dtv. red.; SERDYUK, O.F., red.

[Magnetozation of the basic and ultrabasic rocks of the Ukrainian Shield and its use in geology] Hamagnichannost' osnovnykh i ul'traosnovnykh porod Ukrainskogo shchita i ee ispol'zovanie v geologii. Miev, Haukova dumka, 1965.
148 p. (MIRA 18:8)

MIRHAYLOVA, N.P. [Mykhailova, N.P.]; GLEVAS'KA, A.M. [Elevas'ka. A.M.]

Plenum of the Commission on a Comstant Field and Calcomagnetism.

Dop. AN URSR no.2:279-280 '64. (MIRA 17:5)



VITRAUSKAS, J., red.; ZVIRENAS, A., red.; SERMING, J., red.;
ADDMAVICIUS, B., red.; EARAMANCKAS, b., red.; ESCREENIAGE, V.,
red.; GLEVAVICIENE, S., red.

[Problems of the mechanization of agracultural momentum]
Zemes via gamylos machanizatuma alamahat. V. halso, laddynia
"Mintis," 1944. 135 p. [In Lithmanian]

i. Lib turon zomes takis mechanization in alest il vascijan
mekalinia tyrime institutas.